

Title (en)

DOSING DEVICE FOR GENERATING A GAS FLOW WITH AN ACTIVE SUBSTANCE FINELY DISPERSED IN THE LATTER

Title (de)

DOSIERVORRICHTUNG ZUR ERZEUGUNG EINES GASSTROMES MIT EINEM IN DIESEM FEIN VERTEILTEN WIRKSTOFF

Title (fr)

DISPOSITIF DE DOSAGE POUR LA PRODUCTION D'UN COURANT GAZEUX PRÉSENTANT UNE SUBSTANCE ACTIVE FINEMENT RÉPARTIE DANS L'ÉTAT GAZEUX

Publication

EP 2379142 B1 20150909 (DE)

Application

EP 09799074 A 20091210

Priority

- EP 2009066829 W 20091210
- EP 08172765 A 20081223
- EP 09799074 A 20091210

Abstract (en)

[origin: EP2201977A1] The device (1) has a dosing chamber releasing device including separating elements (54, 76, 77) movable between closing and opening positions by an inner cylinder (53) and a guiding section (55). Gas flow channels (60-63, 68) and/or a connection between one of the channels and a dosing chamber (14) is blocked and released in the respective closing and opening positions. The separating elements and/or the cylinder and the section are provided with knobs and bars in a sliding contact area, where the knobs and the bars influence sliding friction characteristics.

IPC 8 full level

A61M 15/00 (2006.01)

CPC (source: EP KR US)

A61M 15/00 (2013.01 - KR); **A61M 15/0025** (2014.02 - EP US); **A61M 15/0065** (2013.01 - EP US); **A61M 15/02** (2013.01 - KR);
A61M 2202/064 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2201977 A1 20100630; AR 074901 A1 20110223; AU 2009331727 A1 20110811; AU 2009331727 B2 20140417;
BR PI0923642 A2 20160119; CA 2747319 A1 20100701; CA 2747319 C 20170530; CN 102256647 A 20111123; CN 102256647 B 20140528;
DK 2379142 T3 20151221; EP 2379142 A2 20111026; EP 2379142 B1 20150909; ES 2555488 T3 20160104; HK 1159000 A1 20120727;
HU E027152 T2 20160829; IL 213653 A0 20110731; IL 213653 A 20150129; JP 2012513263 A 20120614; JP 5591259 B2 20140917;
KR 101671706 B1 20161102; KR 20110114598 A 20111019; MX 2011006730 A 20111118; MY 156775 A 20160331; NZ 594129 A 20131129;
PL 2379142 T3 20160331; RU 2011130531 A 20130127; RU 2525224 C2 20140810; SG 172330 A1 20110728; US 2012111326 A1 20120510;
US 8833365 B2 20140916; WO 2010072575 A2 20100701; WO 2010072575 A3 20101223; ZA 201104386 B 20120229

DOCDB simple family (application)

EP 08172765 A 20081223; AR P090105086 A 20091223; AU 2009331727 A 20091210; BR PI0923642 A 20091210; CA 2747319 A 20091210;
CN 200980151085 A 20091210; DK 09799074 T 20091210; EP 09799074 A 20091210; EP 2009066829 W 20091210; ES 09799074 T 20091210;
HK 11113548 A 20111215; HU E09799074 A 20091210; IL 21365311 A 20110619; JP 2011542756 A 20091210; KR 20117017198 A 20091210;
MX 2011006730 A 20091210; MY PI20112892 A 20091210; NZ 59412909 A 20091210; PL 09799074 T 20091210; RU 2011130531 A 20091210;
SG 2011045879 A 20091210; US 200913141324 A 20091210; ZA 201104386 A 20110613